[0037] The display **120** cooperates with display driver **122** to display paginated content such as text-based information. For example, display **120** may be used to display pages from electronic books. The paginated content may be primarily in the form of text, although other information such as images, video clips and animation, may also be presented on display **120**. In an embodiment, first memory **144** corresponds to non-volatile memory for computing device **100**. The first memory **144** stores a data collection corresponding to the paginated content. The processor **140** accesses first memory **144** to retrieve the data. The processor **140** combines with display driver **122** to present the data in a paginated format on display **120**.

[0038] To present a selected page, processor **140** accesses first memory **144** for values in the data collection that are assigned to the selected page. Each selected page of the paginated content is presentable on display **120** while other pages are cached in second memory **146**. Alternatively, the data collection may be signaled to processor **140** from a peripheral device, through first peripheral port **102** or wireless peripheral port **104**. Either first memory **144** or second memory **146** may be used to store portions of the data collection received from the peripheral device. The second memory **146** may be used to buffer or cache the data collection while one or more of the pages from the data collection is being displayed.

[0039] The sensor **130** is used to detect a deflection entered as input by a user. The deflection input may be measured as an analog value that is signaled to processor **140**. The deflection input causes portions of one or more pages from the data collection to be displayed on at least a portion of display **120**. The deflection is measured by sensor **130** for processor **140**. In this way, the user may deflect a component of computing device **100** to signal an input to the processor **140**. The processor uses a detected value of the input to present multiple pages on all or portions of display **120** over the course of a selected time period. As will be further described, embodiments of the invention allow for sensor **130** to detect deflection created on sensor **130**, display **120**, on a printed circuit board (PCB) of computing device **100**, on a housing of computing device **100**, or on a combination of sensor **130** and another component of computing device **100**. The deflection may simulate the bending of a book or stack of pages, prior to their pages being flicked.

[0040] In an embodiment, the analog value measured by sensor **130** reflects the magnitude of the deflection, as well as other characteristics such as its duration, or flick speed. To process the information detected by sensor **130**, AD converter **134** is coupled to receive the analog input from sensor **130**. The AD converter **134** converts the analog input into a digital format for processing by processor **140**. The AD converter **134** may also include several channels to receive other analog inputs or values from other components. For example, one of the channels **136** may be coupled to a digitizer **260** (see FIG. **5-7**) of computing device **100** to detect position information of a stylus in contact with display **120**.

[0041] FIG. **5** is a top view of computing device **100**, illustrating positioning of a sensor device **230**, under an embodiment of the invention. The sensor device **230** may perform functions as described with sensor **130** (FIG. **4**), but is combined or housed within a deflectable structure. The sensor device **230** may be combined with another deflectable component (such as display **120**) to correlate the deflection of the sensor device **230** with deflection of the other component.

[0042] In an embodiment shown by FIGS. **2** and **3**, computing device **100** is a tablet having a length L extending between a top **207** and a bottom **209**. A width W extends between lateral sides **203**, **203**. A housing **210** of computing device **100** retains display **120** (FIG. **1**), as well as housing other components. The housing **210** retains a digitizer **260** in cooperation with display **120**. Among other functionalities provided, digitizer **260** enables input to be entered onto display **120** through contact. The digitizer **260** detects the position of the contact and correlates the position contact with an input. The digitizer **260** may be positioned on top of display **120**, or be overlaid by display **120**. For the embodiment shown, digitizer **260** is assumed to be under display **120**. In some computing device **100**, digitizer **260** may extend beyond display **120** along the top edge **222**, bottom edge **224**, or one of the lateral edges **226**, **228**. In particular, for many types of devices, digitizer **260** may extend beyond the lateral edges **226**, **228** of display **120**.

[0043] With reference to FIG. **5**, a top segment **217** of housing **210** measures the distance from a top edge **222** of display **220** and a top **207** of computing device **100**. A bottom segment **219** of housing **210** measures the distance from a bottom edge **224** of display **220** and a bottom **209** of computing device **100**. A first lateral segment **213** of housing **210** measures the distance from one of the lateral sides **203** and a lateral edge **226** of display **220**. Similarly, a second lateral segment **215** of housing **210** measures the distance from the other one of the lateral sides **203** and another lateral edge **228** of display **220**.

[0044] In an embodiment, sensor device **230** is positioned within housing **210** on or adjacent to an exterior surface. For example, a front panel **212** of housing **210** may provide access to display **220**. The sensor device **230** may be positioned directly underneath front panel **212**. To this end, sensor device **230** is positioned apart from display **220** and digitizer **260**. In one embodiment, sensor device **230** is positioned on top segment **217** of housing **210**. To enable sensor device **230** to measure a deflection, both housing **210** and sensor device **230** may be configured to bend or cantilever. The display **220** and digitizer **260** may be similarly configured. For sensor device **230** such as described with FIGS. **4** and **5**, the direction of bending would cantilever top segment **217** into the paper.

[0045] FIG. **6** illustrates another embodiment in which sensor device **230** is positioned lengthwise within housing **210** of computing device **100**, so as to extend between top **207** and bottom **209**. Since digitizer **260** may extend towards lateral side **203**, sensor device **230** may be positioned underneath both display **220** and digitizer **260**. The first lateral segment **213** may overlay at least a portion of sensor device **230** and digitizer **260**. The sensor device **230** is deflective to measure a deflection entered by the user. To accommodate the deflection, housing **210**, display **220**, and digitizer **260** may deflect with sensor device **230**, so that lateral side **203** of computing device **100** nearest sensor device **230** deflects into the paper.

[0046] With reference to FIGS. **5** and **6**, display **220** may be described with reference to a deflected region **225**. The deflected region **225** may coincide to a portion of display **220** where presentation of the data collection is altered as a result of the deflection created by the user. The deflected region **225** may also coincide with a region of display **220** that is the boundary of physical deflection on display **220**. The deflected region **225** may be positioned center or off-center to best suit positioning of sensor device **230**. For example, if one of the lateral sides **203** is deflectable, deflected region **225** may be